

To: Highway Division 3
 NC Department of Transportation

From: Amber Coleman, LSS, PWS
 Raleigh, NC

File: R-3300B

Date: May 26, 2020

Reference: R-3300B Geoenvironmental Impacts

This letter serves as a status update for geoenvironmental sites of concern for the R-3300B Hampstead Bypass Project. Phase I field investigations were completed for the project study area in 2009 and 2018. The number of potential sites within the project area has increased (up from 1 site) from the 2017 CP4A meeting since the project study area has been adjusted. A portion of the adjacent U-5732 project study area is now within the R-3300B study area. According to the 2018 Phase I Report, all of the sites are anticipated to present low geoenvironmental impacts to the project. The site numbers below match the site numbers within the 2018 report.

Table 1. Geoenvironmental Sites of Concern (R-3300B)

Report Site #	Property	Location	Hazard	Geoenvironmental Impacts*
30	Cedar on the Green Rentals, Vacant Commercial Building	565 St. Johns Church Rd	Possible former gas station	Low
32	Topsail Middle School	17445 US Hwy 17	UST	Low
34	Hampstead Recycling Center	17619 US Hwy 17	Reported soil contamination from a waste oil AST. Has been remediated and closed out (2011).	Low
36	Belvedere Plantation Well #2	18408 US Hwy 17	Power generators with likely fuel storage	Low
37	Edens, Jeanette et al - Vacant Commercial Building	19420 US Hwy 17	Possible former gas station	Low
38	Sloop Point Country Store – Gas Station	19344 US Hwy 17	Active UST	Low

*From 2018 Geoenvironmental Report prepared by Falcon Engineering

Stantec Consulting Services Inc.



Amber Coleman, LSS, PWS
 Senior Environmental Scientist

Phone: 919 865 7399
 Fax: 919 851 7024
 amber.coleman@stantec.com

Attachment: Excerpt from 2018 Geoenvironmental Report – Falcon Engineering

30) **Property Name:**
Vacant Commercial Building
565 St Johns Church Rd
Hampstead, NC 28443

Property Owner:
Cedar on The Green Rentals LLC
256 Osprey Pl
Wilmington, NC 28411



This vacant commercial building is in the southeast corner of the Jenkins Road and N. St. Johns Church Road intersection. Based on the style, age, and location of this building it may have been used to sell retail petroleum in the past. Incidents or USTs are not listed for this property. **This site is anticipated to present low geoenvironmental impacts to the project.**

32) **Property Name:**
Topsail Middle School
17445 US HWY 17
Hampstead, NC 28443

Facility ID #: 00-0-0000035262

Property Owner:
Pender County Board of Education
925 Penderlea HWY
Burgaw, NC 28425

UST Owner Pender County Board of Education
925 Penderlea HWY
Burgaw, NC 28425



Topsail Middle School is located on the west side of US 17 and on the opposite side of US 17 from Vista Lane. Topsail Middle School is listed in the UST database with the same address (17385 US 17) as the south adjoining Topsail Elementary School. Neither school is listed in a database that reports spills or releases. **This site is anticipated to present low geoenvironmental impacts to the project.**

34) **Property Name:**
Hampstead Recycling Center
17619 US HWY 17
Hampstead, NC 28443

Property Owner:
Rocky Point Topsail Water & Sewer District
PO Box 5
Burgaw, NC 28425

UST #: WI-85501

Incident #: 85501



This location is the former Hampstead Recycling Center. The Center is listed the LAST database. This facility reported soil contamination from a waste oil AST. The soil was reportedly remediated and the incident was closed out by the state in March 2001. **This site is anticipated to present low geoenvironmental impacts to the project.**

36) **Property Name:**
Belvedere Plantation Well #2
18408 US HWY 17
Hampstead, NC 28443

Property Owner:
Belvedere Utility Co C/O Utilities Inc.
2335 Sanders RD
Northbrook, IL 60062



Generators
with
assumed
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This community water supply well is located east of US 17 and south of Long Leaf Drive. The well site is not listed in a database that reports spills or releases; however, two power generators were observed onsite. The generators are assumed to contain internal storage tanks. **This site is anticipated to present low geoenvironmental impacts to the project.**

37) **Property Name:**
Vacant Commercial Building
19240 US HWY 17
Hampstead, NC 28443

Property Owner:
Edens, Jeanette Smith et al C/O Jeanette Smith Edens
PO BOX 512
Hampstead, NC 28443



This commercial building is located on the east side of US 17 and south of the Sloop Point Loop Road intersection. Based on the style, age, and location of this building it may have been used to sell retail petroleum in the past. Incidents or USTs are not listed for this property. **This site is anticipated to present low geoenvironmental impacts to the project.**

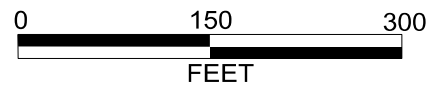
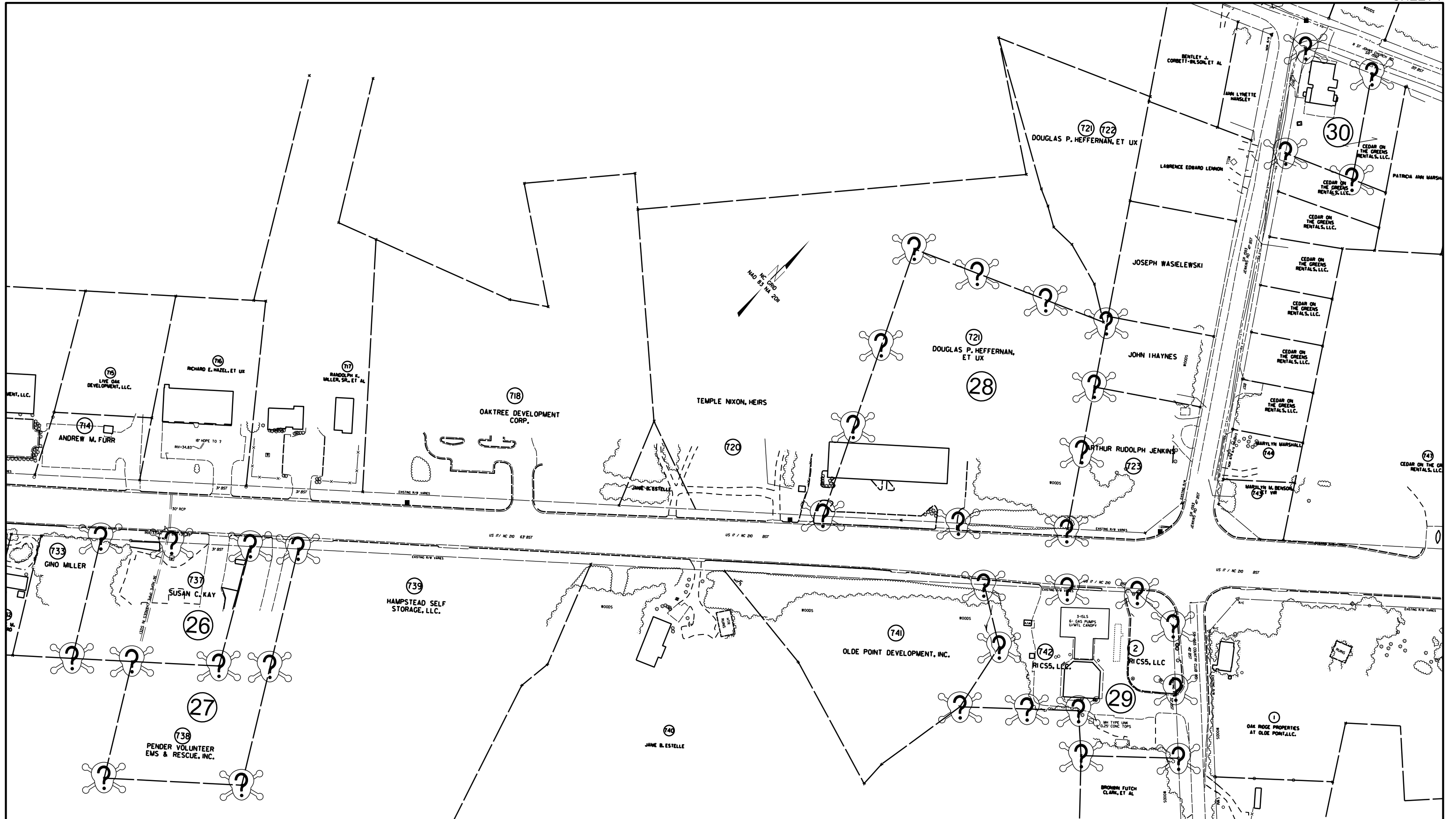
38) **Property Name:**
Sloop Point Country Store –
BP Gas Station
19344 US HWY 17
Hampstead, NC 28443
Facility ID #: 00-0-0000035536

Property Owner:
Holt Real Estate Enterprises, Inc.
1709 Clinton Road
Fayetteville, NC 28312

UST Owner: Holt Oil Co., Inc.
1709 Clinton Rd – P. O. Box 53157
Fayetteville, NC 28312-5329



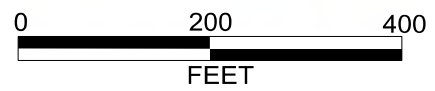
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1210 TRINITY ROAD, SUITE 110
CARY, NC 27513
PHONE: 919.871.0800

PARCEL MAP

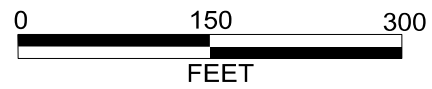
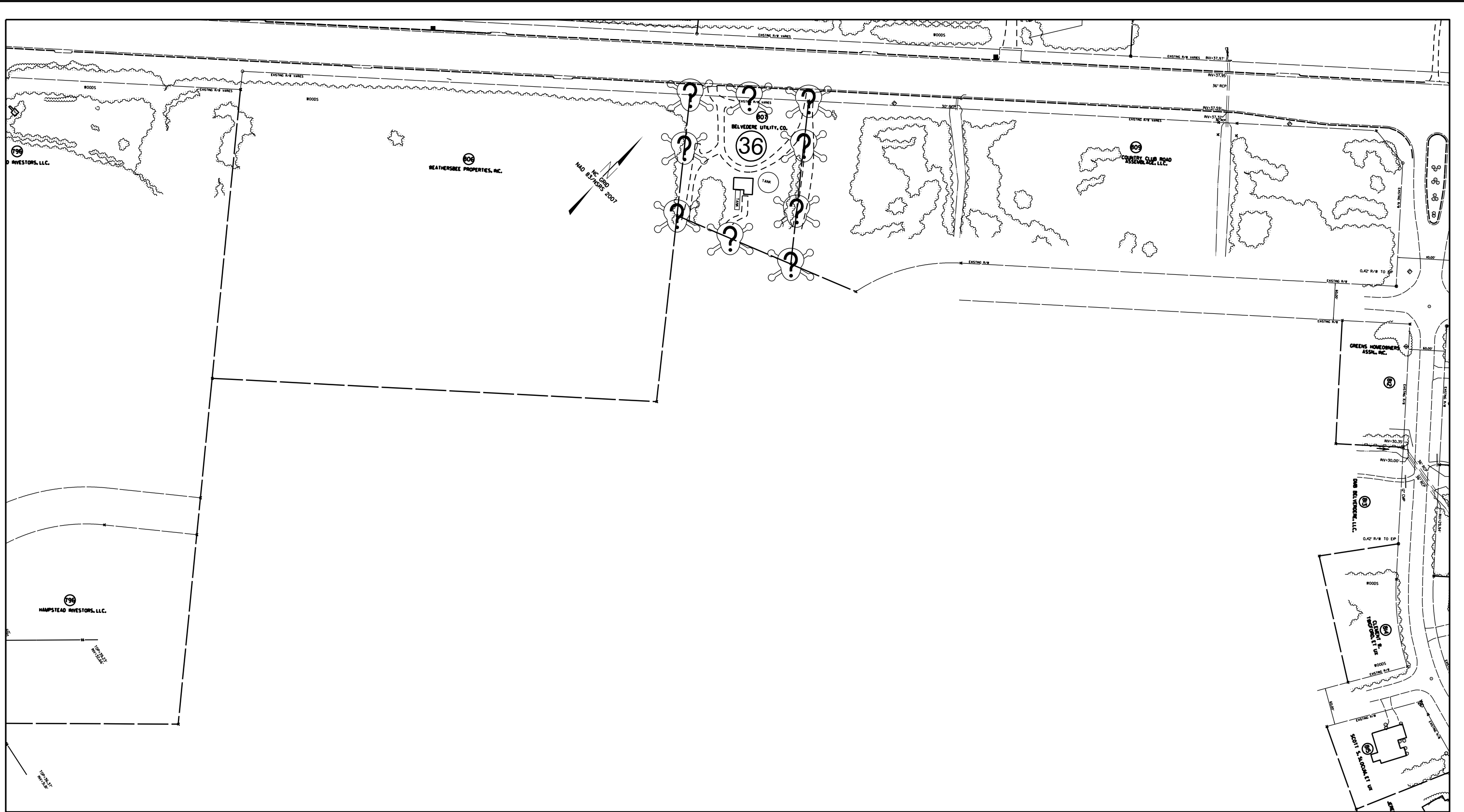
HAMPSTEAD CORRIDOR
PENDER/HAMPSTEAD, NORTH CAROLINA
WBS: 54023.1.1 | TIP: U-5732A
FALCON PROJECT NO.: G15059.00



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SITE MAP

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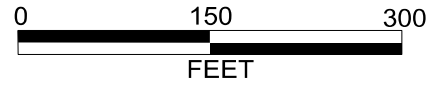


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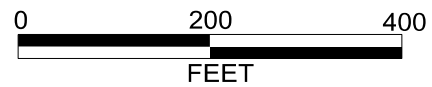
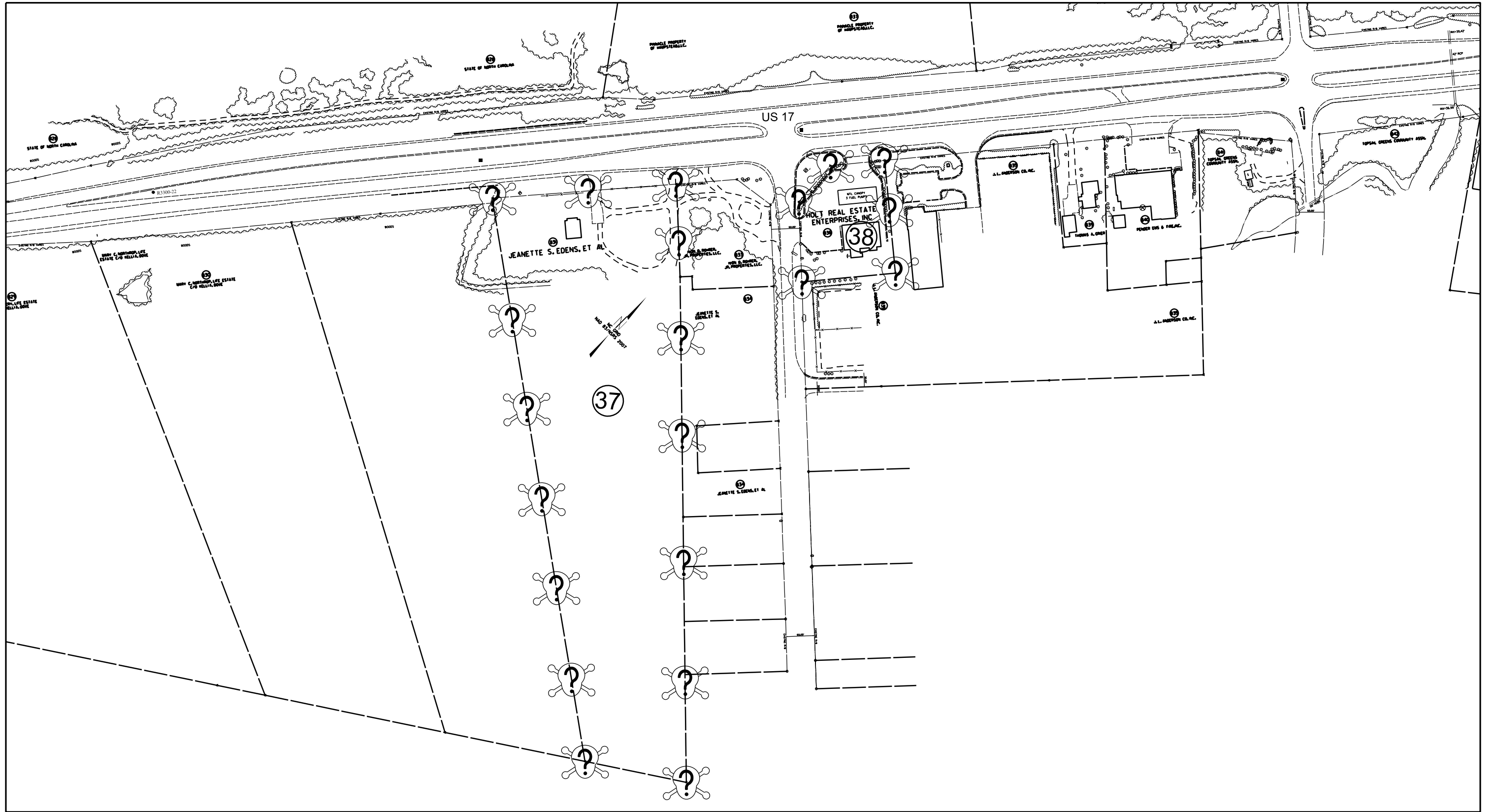
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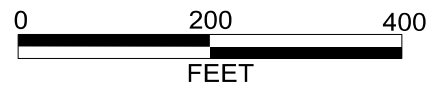


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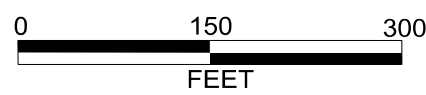
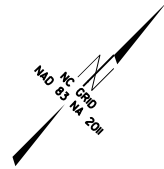
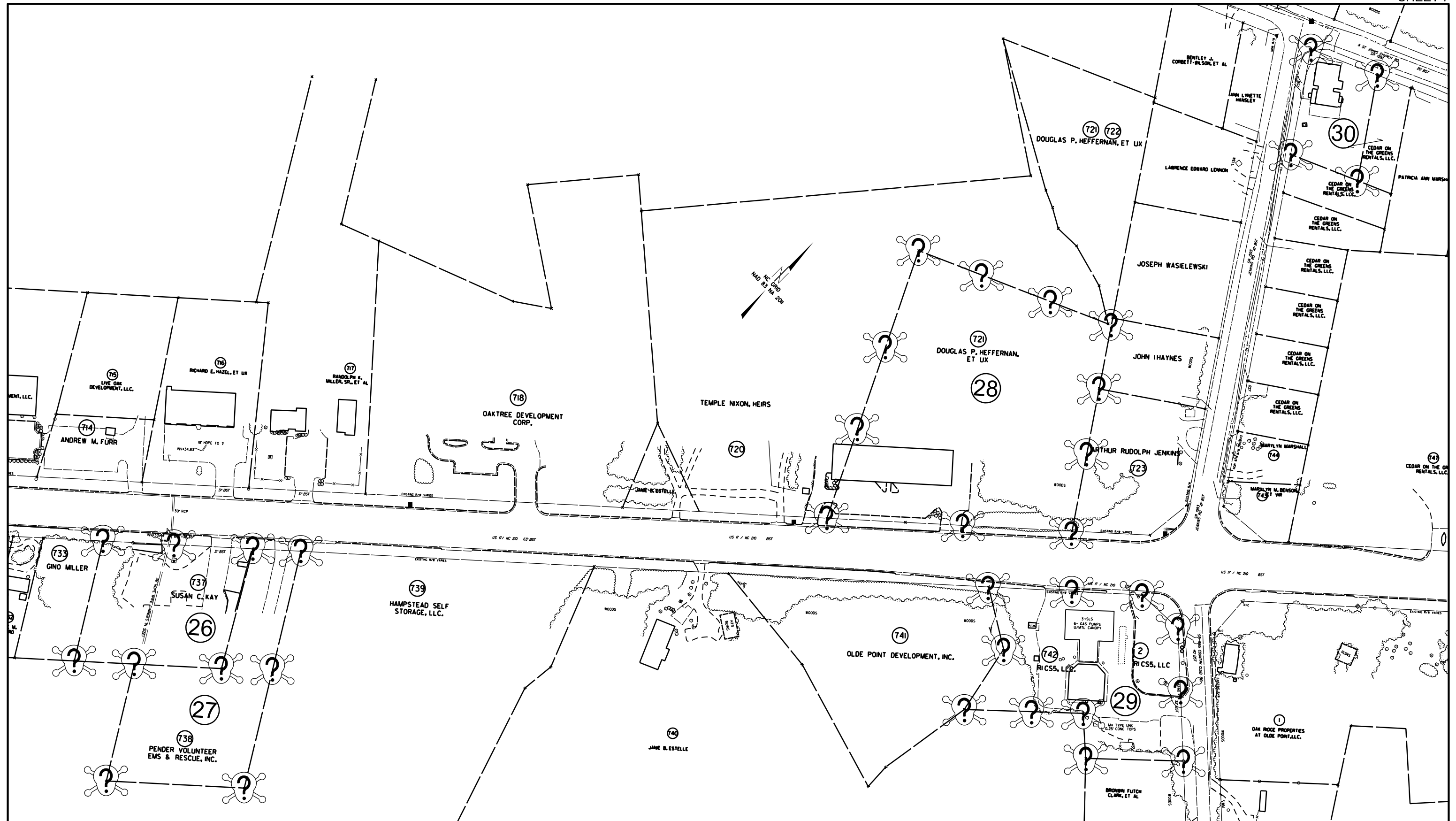
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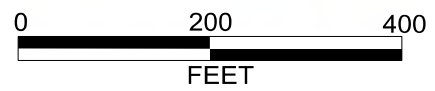
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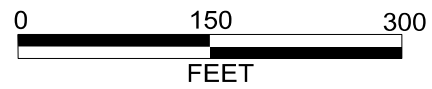
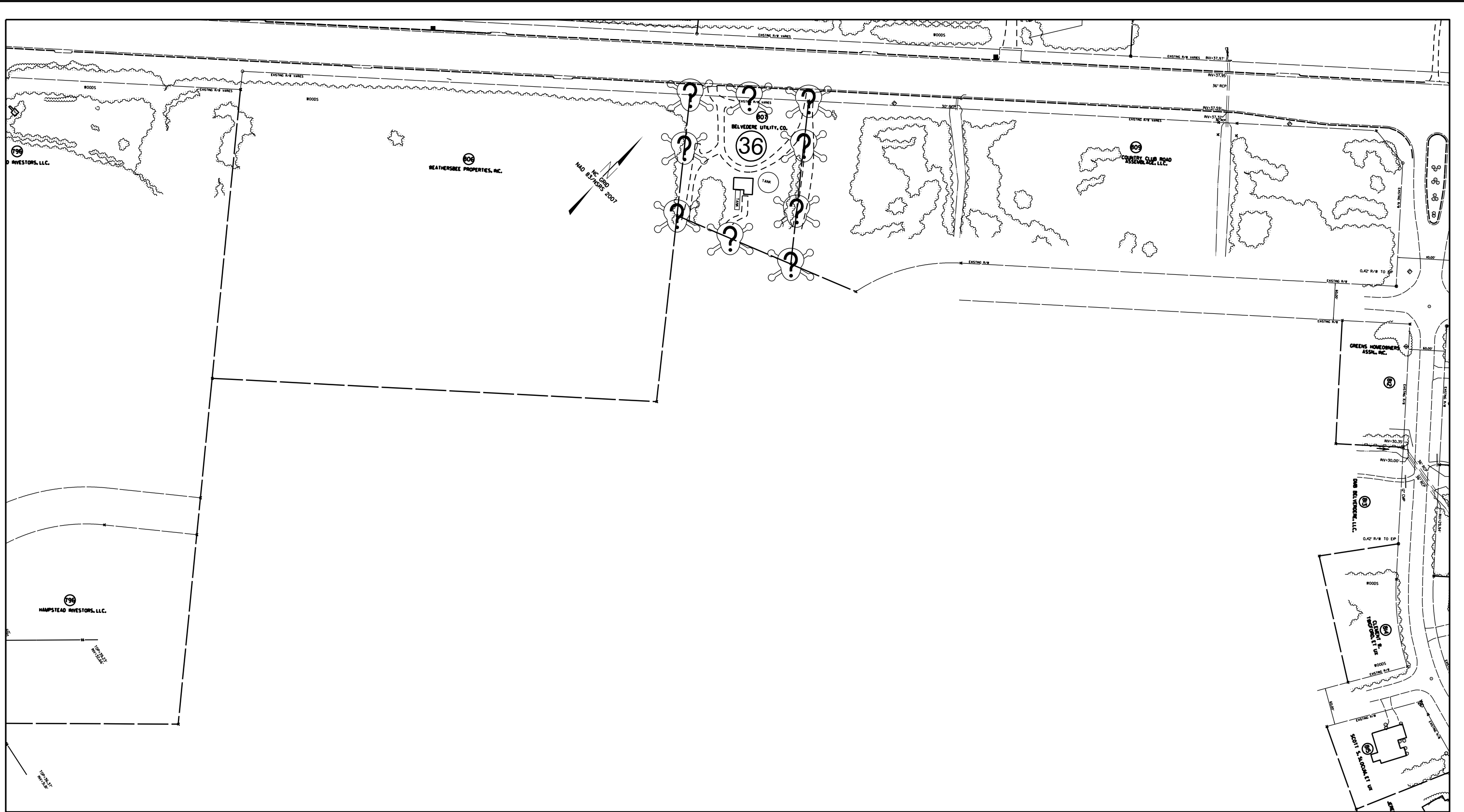
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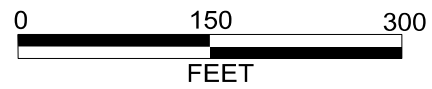
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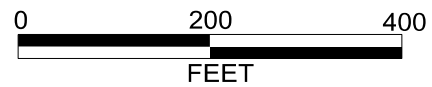
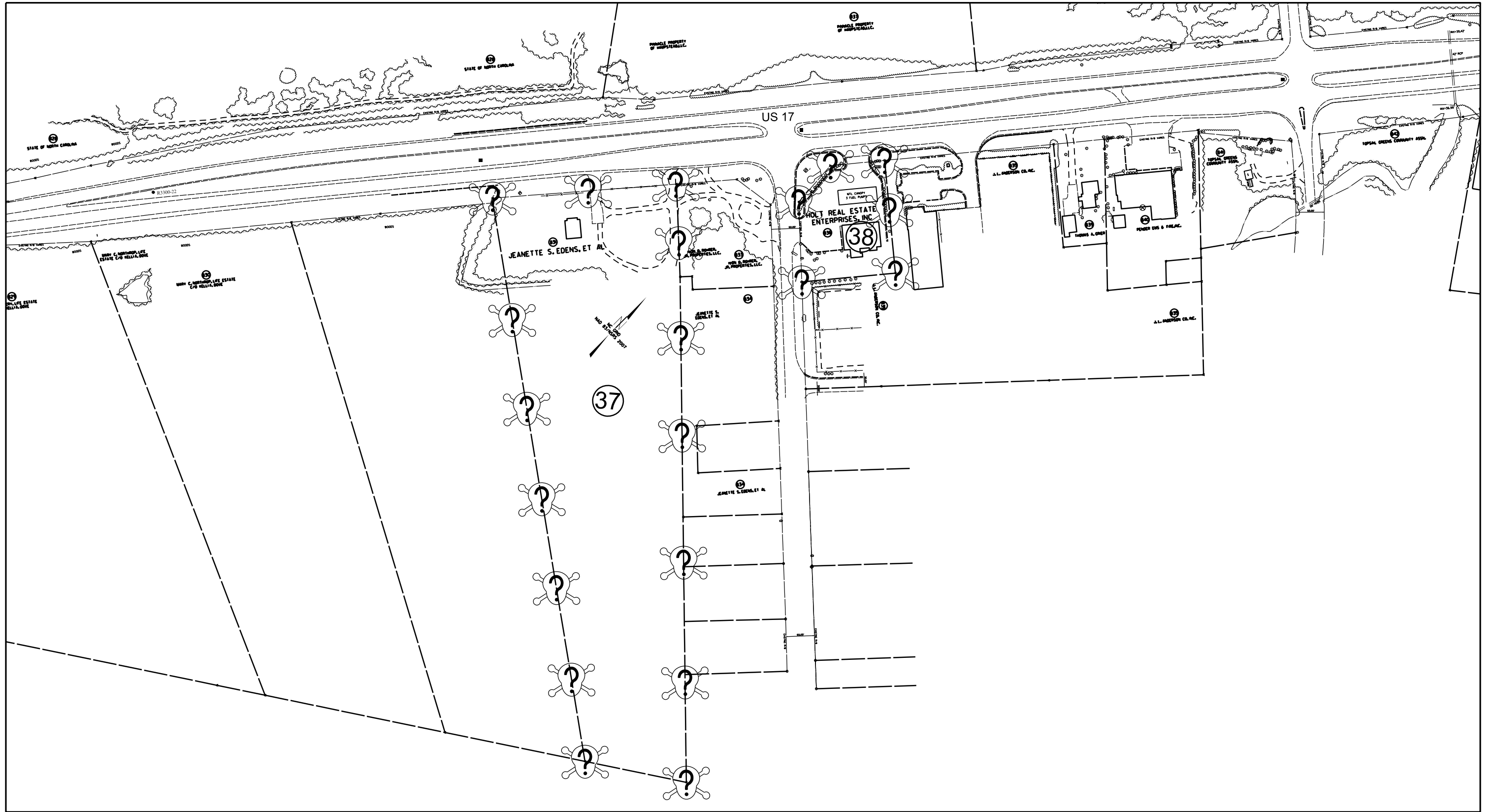
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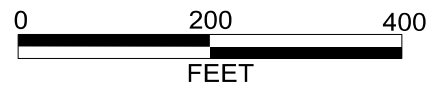
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STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

BEVERLY EAVES PERDUE
GOVERNOR

EUGENE A. CONTI, JR.
SECRETARY

March 11, 2009

MEMORANDUM TO: Name
Project Development and Environmental Analysis Branch

ATTN: Name
Project Planning Engineer

FROM: Njoroge W. Wainaina, P.E.
State Geotechnical Engineer
Geotechnical Engineering Unit

TIP NO: U-4751 & R-3300
WBS: 401919.1.1
COUNTY: New Hanover & Pender
DESCRIPTION: New Route US 17 Hampstead Bypass / Military Cutoff Road Ext

SUBJECT: **Geotechnical Pre-Scoping Report**

The Geotechnical Engineering Unit has performed a limited assessment of the above referenced project to assist in developing the scope of work necessary to provide early identification of hazardous material and geotechnical issues that could impact the project's planning, design, or construction.

HAZARDOUS MATERIALS EVALUATION

Purpose

This section presents the results of a hazardous material evaluation conducted along the above referenced project. The main purpose of this investigation is to identify properties within the project study area that are or may be contaminated and therefore result in increased project costs and future liability if acquired by the Department. Hazardous material impacts may include, but are not limited to, active and abandoned underground storage tank (UST) sites, hazardous waste sites, regulated landfills and unregulated dumpsites.

MAILING ADDRESS:
NC DEPARTMENT OF TRANSPORTATION
GEOTECHNICAL ENGINEERING UNIT
GEOENVIRONMENTAL SECTION
1589 MAIL SERVICE CENTER
RALEIGH NC 27699-1589

TELEPHONE: 919-250-4088
FAX: 919-250-4237

WEBSITE: WWW.NCDOT.GOV

LOCATION:
CENTURY CENTER COMPLEX
BUILDING B
1020 BIRCH RIDGE DRIVE
RALEIGH NC 27610

Techniques/Methodologies

The Geographical Information System (GIS) was consulted to identify known sites of concern in relation to the project corridor. Geotechnical Engineering Unit personnel conducted a field reconnaissance along the 14 project corridors on February 19, 2009. A search of appropriate environmental agencies' databases was performed to assist in evaluating sites identified during this study.

Findings

UST Facilities

Twenty-eight (28) sites may contain petroleum USTs within the project limits.

Hazardous Waste Sites

No Hazardous Waste Sites were identified within the project limits.

Landfills

No apparent landfills were identified within the project limits.

Other GeoEnvironmental Concerns

Seven (7) other geoenvironmental concerns including five (5) automotive repair facilities, one (1) junkyard, and one (1) golf course maintenance shop, were identified within the project limits.

Anticipated Impacts

Twenty-eight (28) possible UST facilities and seven (7) other geoenvironmental concerns were identified within the proposed project corridor. The impacts identified within the individual proposed project alternatives are as follows:

- Alternative A: 20 sites (15 UST, 4 automotive repair, 1 junkyard)
- Alternative B: 4 sites (4 UST)
- Alternative C: No sites
- Alternative D: No sites
- Alternative E: 4 sites (4 UST)
- Alternative F: No sites
- Alternative G: No sites
- Alternative H: No sites
- Alternative I: No sites
- Alternative J: 6 sites (5 USTs, 1 automotive repair)
- Alternative K: No sites
- Alternative L: No sites
- Alternative M: 1 site (1 maintenance shop)
- Alternative N: No sites

We anticipate low monetary and scheduling impacts resulting from these sites. (See the following table and appendices for details)

The Geotechnical Engineering Unit can provide soil assessments before right of way acquisition. Please note that discovery of additional sites not recorded by regulatory agencies and not reasonably discernable during the project reconnaissance may occur. The Geotechnical Engineering Unit should be notified immediately after discovery of such sites so their potential impact(s) may be assessed.

If there are questions regarding the geoenvironmental issues, please contact Terry W. Fox, LG at 919-250-4088.

Known and Potential Hazardous Material Sites

1)	Property Name Capital Lincoln Mercury 5501 Market St Wilmington, NC 28405	Property Owner: J & J Porter Properties LLC Wilmington, NC 28405
	Facility ID #: 0-000913	UST Owner: Friendly Lincoln Mercury

This facility (formerly Friendly Lincoln Mercury) presently operates as a car dealership. It is located on the north side of Market St approximately 550 feet west of MLK Boulevard. The UST registry shows that two (2) tanks were removed in 1989. The facility ID # is associated with the former business. **This site is anticipated to present low geoenvironmental impacts to the project.**

2)	Property Name A-1 Tint Pro's 5506 Market St Wilmington, NC 28405	Property Owner: William R. Howard Wilmington, NC 28405
	Facility ID #:0-020862 Incident # 13248	UST Owner: North Carolina Equipment Co

This facility (formerly North Carolina Equipment Co.) currently operates as a auto repair shop it is located on the south side of Market St approximately 650 feet west of MLK Blvd. The facility ID # and GWI # are associated with the former business. The UST registry shows three (3) tanks closed in 1990. GWI # 13248 was assigned to this parcel. **This site is anticipated to present low geoenvironmental impacts to the project.**

3)	Property Name Stevens Fabrication & Welding 5506 Market St Wilmington, NC 28405	Property Owner: Wade Stevens Leland, NC
	Facility ID #:0-023525	UST Owner: Stevens Fabrications & Welding

This facility presently operates as a metal fabrication shop. It is located on the south side of Market St approximately 450 feet west of MLK Blvd. The UST registry shows 2 tanks closed in 1989. **This site is anticipated to present low geoenvironmental impacts to the project.**

4)	Property Name JS & J Auto 5625 Market Street Wilmington, NC 28405	Property Owner: Linda B Gore, et al Wilmington, NC 28405
	Facility ID #: N/A	UST Owner: N/A

This facility currently operates as an auto repair shop. It is located in the northeast quadrant of Market Street and MLK Boulevard. There is no information in the UST registry on this facility. There is no evidence of any UST system. **This site is anticipated to present low geoenvironmental impacts to the project.**

5)	Property Name Tony's Auto Service 5663 Market Street Wilmington, NC 28405	Property Owner: Irving P. Hewlett Heirs Wilmington, NC 28403
	Facility ID #: N/A	UST Owner: N/A

This facility currently operates as an auto repair shop. It is located in the northeast quadrant of Market Street and MLK Boulevard. There is no information in the UST registry on this facility. There is no evidence of any UST system. There is one (1) in-ground hydraulic lift at this facility. **This site is anticipated to present low geoenvironmental impacts to the project.**

6)	Property Name Cape Fear Toyota 5640 Market Street Wilmington, NC 28405	Property Owner: Cape Fear Toyota Inc Wrightsville Beach, NC 28480
	Facility ID #: 0-020832	UST Owner: Cape Fear Toyota Inc 5640 Market Street Wilmington, NC

This facility presently operates as a car dealership. It is located in the southeast quadrant of Market Street and Eastwood Road. The UST registry shows one (1) tank closed in 1991, and one (1) tank closed in 1993. There was no other evidence of USTs or UST removal. **This site is anticipated to present low geoenvironmental impacts to the project.**

7)	Property Name Leonard's Building and Truck Accessories 5705 Market Street Wilmington, NC 28405	Property Owner: Leonard Retail Properties II Mount Airy, NC
	Facility ID #: 0-023037 Incident # 17117	UST Owner: S & G Concrete Company 2210 Monroe Street Wilmington, NC 28402

This facility (formerly S & G Concrete Company) currently operates as a building and truck accessories business. It is located in the northeast quadrant of Market St and SR 2650. The facility ID # and GWI # are associated with the former business. The UST registry shows one (1) tank closed in 1980 and one (1) tank closed in 1988. GWI # 17117 has been assigned to this property. **This site is anticipated to present low geoenvironmental impacts to the project.**

8) **Property Name**
Make An Offer Auto's
5810 Market Street
Wilmington, NC 28405

Property Owner:
Gulfstream Foods of NC Inc
1508 Military Cutoff Rd
Wilmington, NC

Facility ID #:0-020933
Incident # 6096

UST Owner:
Coble Dairy Products Inc
3253 Chestnut Expy
Springfield, Mo 65802

This facility (formerly Coble Dairy Products) currently operates as a used car lot. It is located on the south side of Market Street approximately 500 feet west of Cardinal Extension Drive. The facility ID # and GWI # are associated with the former business. The UST registry shows one (1) tank closed in 1990 and GWI # 6096 assigned to this site. No monitoring wells were noted at this location. **This site is anticipated to present low geoenvironmental impacts to the project.**

9) **Property Name**
Parkway Mitsubishi
5924 Market Street
Wilmington, NC 28405

Property Owner:
Wilmington Auto Group Properties LLC
Wilmington, NC

Facility ID #:0-03256
Incident # 18295

UST Owner:
The Hertz Corporation
225 Brae Blvd
Park Ridge, NJ 07656

This facility (formerly Hertz Equipment Rental) currently operates as a car dealership. It is located on the south side of Market St approximately 300 feet east of Cardinal Extension Drive. The facility ID # and GWI # are associated with the former business. The UST registry shows two (2) tanks closed in 1997 and GWI # 18295 is assigned to this location. **This site is anticipated to present low geoenvironmental impacts to the project.**

10) **Property Name**
Hertz Equipment Rental
5931 Market Street
Wilmington, NC 28405

Property Owner:
Filippini Family LTD PTNRP
Wrightsville Beach, NC 28480

Facility ID #:N/A
UST Owner: N/A

This facility presently operates as an equipment rental facility. It is located in the northwest quadrant of Market Street and Judges Road. There is no evidence of any USTs or monitoring wells on site. This facility does automotive repair work and there is one (1) AST located on this property. **This site is anticipated to present low geoenvironmental impacts to the project.**

11)	Property Name D & E Dodge 6220 Market Street Wilmington, NC 28405	Property Owner: Dubose Holdings LLC Wilmington NC 28405
	Facility ID #:0-023101 Incident # 5132 & 19133	UST Owner: D & E Car Exchange 6220 Market St Wilmington, NC 28405

This facility (formerly D & E Car Exchange) currently operates as a car dealership. It is located on the south side of Market Street across from Harley Road. The UST registry shows two (2) tanks closed in 1988 and one (1) waste oil tank closed in place in 1994. There are two (2) GWIs assigned to the site; one (1) for a contaminated water supply well (no longer in use) and one (1) for the waste oil tank. **This site is anticipated to present low geoenvironmental impacts to the project.**

12)	Property Name Gogas # 11 6308 Market Street Wilmington, NC 28405	Property Owner: K.E. Austin Corporation 3301 Burnt Mill Dr Wilmington, NC
	Facility ID #:0-032629	UST Owner: K.E. Austin Corporation 3301 Burnt Mill Dr Wilmington, NC 28403

This facility currently operates as a convenience store & gas station. It is located on the south side of Market Street approximately 450 feet west of Green Meadows Drive. The UST registry shows six (6) tanks currently in use at this facility. No monitoring wells were noted on this parcel. **This site is anticipated to present low geoenvironmental impacts to the project.**

13)	Property Name A to Z Equipment Rental 6312 Market Street Wilmington, NC 28405	Property Owner: A to Z Properties LLC Wilmington, NC 28412
	Facility ID #:0-000943 Incident # 6246	UST Owner: Fox's Holsum Bakery 1135 Broughton St. Orangeburg, SC 29115

This business (formerly Fox's Holsum Bakery) presently operates as an equipment rental Company. It is located on the south side of Market Street, approximately 350 feet west of Green Meadows Drive. The facility ID # and GWI # are associated with the former business. The UST registry shows one (1) tank closed in 1991 and GWI # 6246 assigned to the site. There is no current UST system at this location. **This site is anticipated to present low geoenvironmental impacts to the project.**

14) **Property Name**
Value Express 1 (Our Corner Store)
6402 Market Street
Wilmington, NC 28405

Facility ID #:0-220312

Property Owner:
Hobbs & Hobbs LLC
1332 Castle Hayne Rd
Wilmington, NC 28401

UST Owner:
W.K. Hobbs
1332 Castle Hayne Rd
Wilmington, NC 28401

This facility (formerly Fast Fare # 725) currently operates as a convenience store & BP gas station. It is located on the southeast side of Market Street and Green Meadows Drive. The UST registry shows three (3) tanks closed in 1994 under the ID # 0-020312, and assigned GWI # 17314 to that facility ID #. There are two (2) tanks currently in use at this location. The tanks are 110 feet, and the pump island is 65 feet, respectively, from the US 17 median. No monitoring wells were noted at this parcel. **This site is anticipated to present low geoenvironmental impacts to the project.**

15) **Property Name**
Jackson Motor Co.
6404 Market Street
Wilmington, NC 28405

Facility ID #: N/A
Incident # 14505

Property Owner:
Betty J. Richardson
Wilmington, NC

UST Owner: N/A

This business (formerly B & M Motors) currently operates as a used car dealer. It is located on the south side of Market Street approximately 200 feet east of Green Meadows Drive. There is no evidence of any UST system and no monitoring wells were noted at this site. The GWI database shows an incident # (14505) for the former B & M motors. **This site is anticipated to present low geoenvironmental impacts to the project.**

16) **Property Name**
Pantry # 3122 DBA Quickstop
6480 Market Street
Wilmington, NC 28405

Facility ID #:0-024950

Property Owner:
A.G. Lee Oil Company Inc
Sanford, NC 27331

UST Owner:
The Pantry Inc
1801 Douglas Dr
Sanford, NC 27330

This facility currently operates as a convenience store & gas station. It is located on the south side of Market Street between Edwards Street and Spartan Road. According to the UST registry there are five (5) tanks currently in use. The pump islands are set back 60 feet from the US 17 median. No monitoring wells were noted at this site. **This site is anticipated to present low geoenvironmental impacts to the project.**

17) **Property Name**
Kelly's Automotive
6747 Market Street
Wilmington, NC 28405

Property Owner:
Kelly Gurganious Hansen
Wilmington, NC 28405

Facility ID #:0-033710
Incident # 18650 & 32102

UST Owner:
Eddie L. Gurganious
Wilmington, NC 28405

This facility (formerly Ed's Brake & Lube) presently operates as an automotive repair shop. It is located on the north side of Market Street approximately 950 feet east of Old Dairy Road. The UST facility ID # and GWI # are associated with the former business. According to the UST registry, one (1) UST (used waste oil) was closed in 1998. There are two (2) GWI # assigned to this facility. This facility has one (1) in-ground hydraulic lift currently in use. **This site is anticipated to present low geoenvironmental impacts to the project.**

18) **Property Name**
The Thieves Market
6768 Market Street
Wilmington, NC 28405

Property Owner:
Christopher Theo Lutterloah
Hampstead, NC 28443

Facility ID #: N/A

UST Owner:
Christopher Theo Lutterloah
Hampstead, NC 28443

This business currently operates as an antique shop. It is located on the south side of Market Street approximately 500 feet west of Station Road. There is no evidence of a UST system and no monitoring wells were noted at this facility. **This site is anticipated to present low geoenvironmental impacts to the project.**

19) **Property Name**
The Used Bookery
6770 Market Street
Wilmington, NC 28405

Property Owner:
Sylvia W. Fisher
126 Old Dairy Rd
Wilmington, NC

Facility ID #:0-020740

UST Owner:
Mr. & Mrs. Harold Perki
PO Box 397
Castle Haynes, NC 28429

This business (former Northwood Mini Mart) currently operates as a used book store. It is located on the south side of Market St approximately 300 feet west of Station Road. According to the UST registry two (2) tanks were closed (filled with slurry) in 1989. The facility ID # is associated with the former business. **This site is anticipated to present low geoenvironmental impacts to the project.**

20) **Property Name**
Highway Patrol Station
1 Station Road
Wilmington, NC 28405

Facility ID #:0-025134

Property Owner:
CC&PS Div of State Hwy Patrol
1300 Blue Ridge Rd
Raleigh, NC

UST Owner:
CC&PS Div of State Hwy Patrol
1300 Blue Ridge Rd
Raleigh, NC

This facility currently operates as the Highway Patrol Station. It is located in the southeast quadrant of Market Street and Station Road. The UST registry shows three (3) tanks currently in use at this facility and they are located approximately 300 feet from the centerline of Market Street in the northwest corner of the parking lot. No monitoring wells were noted at this facility. **This site is anticipated to present low geoenvironmental impacts to the project.**

21) **Property Name**
Walgreens Drug Store
6861 Market Street
Wilmington, NC 28405

Facility ID #: 0-023288
Incident # 23276

Property Owner:
Southstar Holdings New Bern LLC
Charlotte, NC 28207

UST Owner:
Peter Saffo
234 Inlet Drive
Wilmington, NC 28405

This business (formerly Snak Mart, Inc. 6865 Market St) presently operates as Walgreens drug store. It is located in the northwest quadrant of the Market Street and Gordon Road intersection. According to the UST registry five (5) tanks were closed in 2001. There are no USTs currently in use at this site. Two (2) monitoring wells were noted and GWI # 23276 has been assigned to this site. The wells are set back 90 feet from the US 17 median. The facility ID # and GWI are associated with the former business. **This site is anticipated to present low geoenvironmental impacts to the project.**

22) **Property Name**
O'Leary's Auto Repair
6905 Market Street
Wilmington, NC 28411

Facility ID #: N/A

Property Owner:
TRI Coast Properties LLC
Wilmington, NC 28403

UST Owner:
TRI Coast Properties LLC
Wilmington, NC 28403

This facility currently operates as an auto repair shop. It is located on the north side of Market Street approximately 230 feet east of Gordon Road. There are no USTs currently in use at this facility and no monitoring wells were noted. **This site is anticipated to present low geoenvironmental impacts to the project.**

23)	Property Name Pro Lube 6940 Market Street Wilmington, NC 28411 Facility ID #: N/A Incident # 17066	Property Owner: ZP No. 173 LLC Wilmington, NC 28401 UST Owner: ZP No. 173 LLC Wilmington, NC 28401
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This facility presently operates as an oil change facility. It is located on the south side of Market Street approximately 800 feet west of Military Cut Off Road in the Ogden Plaza shopping center. The GWI data base shows an incident (#17066) for this address. The store front is 110 feet from the US 17 centerline. There are no current USTs at this facility and no monitoring wells were noted. **This site is anticipated to present low geoenvironmental impacts to the project.**

24)	Property Name Market Street Citgo 6980 Market Street Wilmington, NC 28411 Facility ID #: 0-002452 Incident #s: 10148 32113	Property Owner: Mid-State Petroleum Inc. 4192 Mendenhall Oaks Park High Point, NC 27261 UST Owner: Mid-State Petroleum Inc. 4192 Mendenhall Oaks Park High Point, NC 27261
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This facility currently operates as a convenience store & Citgo gas station. It is located in the southwest quadrant of Market Street and Military Cut Off Road. The tank bed is located 65 feet from the centerline on Market Street. The UST registry shows six (6) tanks currently in use at this facility. Several monitoring wells were noted on site and incident #'s 10148 and 32113 have been assigned to the facility. Catlin Engineers and Scientist completed a PSA report dated 11/22/2002 for DOT for the U-2703 project. The GeoEnvironmental Section also investigated this parcel as part of the U-4902B PDEA corridor study. **This site is anticipated to present low geoenvironmental impacts to the project.**

25)	Property Name Scotchman #35 7158 Market Street Wilmington, NC 28411 Facility ID #: 0-020180 Incident #: 17287	Property Owner: RI CS5, LLC Escondido, CA 92046 UST Owner: Worsley Companies, Inc. 10 S. Cardinal Drive Wilmington, NC 28406
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This facility currently operates as a convenience store & gas station. It is located in the south quadrant of the US 17 (Market Street) and Middle Sound Loop Road intersection. The tank bed is located 60 feet from the centerline on US 17. The UST registry shows two (2) tanks currently in use at this facility. Four (4) USTs were removed in 1997. Monitoring wells were noted on site and incident # 17287 has been assigned to the facility. **This site is anticipated to present low geoenvironmental impacts to the project.**

26)	Property Name Gas Center #12 7318 Market Street Wilmington, NC 28405	Property Owner: Eventide Properties, LLC Wilmington, NC
	Facility ID #: 0-034030	UST Owner: Gas Center, Inc. PO Box 2024 Wilmington, NC 28402

This facility currently operates as a convenience store & BP gas station. It is located on the southeast side of US 17. The tank bed is located 135 feet from the US 17 median. The UST registry shows five (5) tanks currently in use at this facility. There are no groundwater incidences associated with this parcel. **This site is anticipated to present low geoenvironmental impacts to the project.**

27)	Property Name Wilco #391 7413 Market Street Wilmington, NC 28411	Property Owner: Stephen T. Williams Winston-Salem, NC 27104
	Facility ID #: 0-032286	UST Owner: WilcoHess, LLc 5446 University Parkway Winston-Salem, NC 27105

This facility currently operates as a convenience store & Hess gas station. It is located on the northwest side of US 17. The tank bed is located 105 feet from the US 17 (Market Street) centerline. The UST registry shows four (4) tanks currently in use at this facility. There are no groundwater incidences associated with this parcel. **This site is anticipated to present low geoenvironmental impacts to the project.**

28)	Property Name Porters Neck County Store 7644 Market Street Wilmington, NC 28405	Property Owner: James & Dorothy Balkum Wilmington, NC 28403
	Facility ID #: 0-032303	UST Owner: Holt Oil Co, Inc. 1709 Clinton Road Fayetteville, NC 28301

This facility currently operates as a convenience store & gas station. It is located in the east quadrant of the US 17 (Market Street) and Porters Neck Road intersection. The tank bed is located 95 feet from the US 17 median. The UST registry shows three (3) tanks currently in use at this facility. Six (6) USTs were removed in 1988 from this site when doing business as Coastal Outdoor Sports, Inc. (Facility #0-022148). No monitoring wells were noted on site. **This site is anticipated to present low geoenvironmental impacts to the project.**

29)	Property Name Wilco Hess Food Mart 394 14477 US 17 Hampstead, NC 28443 Facility ID #: 0-034550	Property Owner: WilcoHess, LLC 5446 University Pkwy Winston Salem, NC 27105 UST Owner: WilcoHess, LLC 5446 University Pkwy Winston Salem, NC 27105
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This facility currently operates as a convenience store & Hess gas station. It is located on the northwest side US 17 and across from Headwaters Drive intersection. The tank bed is located 100 feet from the US 17 centerline. The UST registry shows three (3) tanks currently in use at this facility. **This site is anticipated to present low geoenvironmental impacts to the project.**

30)	Property Name Hampstead Country Store 14565 US 17 Hampstead, NC 28443 Facility ID #: 0-034309	Property Owner: Holt Oil Co., Inc. PO Box 53157 Fayetteville, NC 28305 UST Owner: Holt Oil Co., Inc. 1709 Clinton Road Fayetteville, NC 28301
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This facility currently operates as a convenience store & BP gas station. It is located in the west quadrant of the US 17 and NC 210 W intersection. The tank bed is located 90 feet from the centerline on US 17. The UST registry shows three (3) tanks currently in use at this facility. **This site is anticipated to present low geoenvironmental impacts to the project.**

31)	Property Name Lucas & Associates Realtors 14695 US 17 Hampstead, NC 28443 Facility ID #: N/A	Property Owner: Town of Hampstead UST Owner: N/A
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This facility currently operates as a business office. The building housed the original Hampstead Post Office. Other businesses have operated here and may have potentially been a gas station in the past. The building is set back 72 feet north of US 17 and located between NC 210 W and Peanut Road. This parcel does not appear in the UST Section registry, and no monitoring wells or UST evidence was noted. **This site is anticipated to present low geoenvironmental impacts to the project.**

32)	Property Name Jeffy's Waterway Café 15831 US 17 Hampstead, NC 28443 Facility ID #: N/A	Property Owner: Jeff Keller 822 Bayshore Drive Wilmington, NC 28411 UST Owner: Jeff Keller 822 Bayshore Drive Wilmington, NC 28411
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This closed facility operated as a diner and take out restaurant. The property layout and signage suggests that a gas station may have operated at this location. The building is set back 120 feet north of US 17 and 650 west of the Heartwood Drive intersection. This parcel does not appear in the UST Section registry, and no monitoring wells or UST evidence was noted. **This site is anticipated to present low geoenvironmental impacts to the project.**

33)	Property Name Midway Tire & Battery 16646 US 17 Hampstead, NC 28443	Property Owner: Susan Coleman Kay 105 Morris Lane Oak Ridge, TN 37830
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This facility operates as an auto repair shop. It is located 150 feet south of the US 17 median and approximately 650 feet east of Williams Love Grove Church Road. There are no USTs in use at this facility and no monitoring wells were noted. **This site is anticipated to present low geoenvironmental impacts to the project.**

34)	Property Name Scotsman 183 1 US 17 Hampstead, NC 28443 Facility ID #: 0-001069 Incident #: 16267	Property Owner: Realty Income Corp. PO Box 460069 Escondido, CA 92046 UST Owner: Worsley Companies, Inc. 10 S. Cardinal Drive Wilmington, NC 28406
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Exxon 130 feet This facility currently operates as a convenience store and Exxon gas station. It is located in the south quadrant of the US 17 and Country Club Drive intersection. The tank bed is located 130 feet south from the US 17 centerline. The UST registry shows two (2) tanks currently in use at this facility. Four (4) USTs were removed in 1997. Monitoring wells were noted on site and incident # 16267 has been assigned to the facility. **This site is anticipated to present low geoenvironmental impacts to the project.**

35)	Property Name Castle Bay Golf Course Maintenance Shop 2516 Hoover Road Hampstead, NC 28443	Property Owner: Castle Bay Corp. PO Box 10137 Wilmington, NC 28404
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This facility operates as the maintenance and landscaping shop for the golf course. It is located 115 feet east of Hoover Road and 0.3 mile north of Highlands Drive. Two (2) ASTs were located between Hoover Road and the shop. The shop area itself stores landscaping equipment, fertilizer, herbicides, and pesticides. **This site is anticipated to present low geoenvironmental impacts to the project.**

GEOTECHNICAL IMPACT EVALUATION

Techniques/Methodologies

Findings

Anticipated Impacts/Recommendations

If there are questions regarding the geotechnical issues, please contact [Name] at [Phone]

cc:

Art McMillan, PE, State Highway Design Engineer

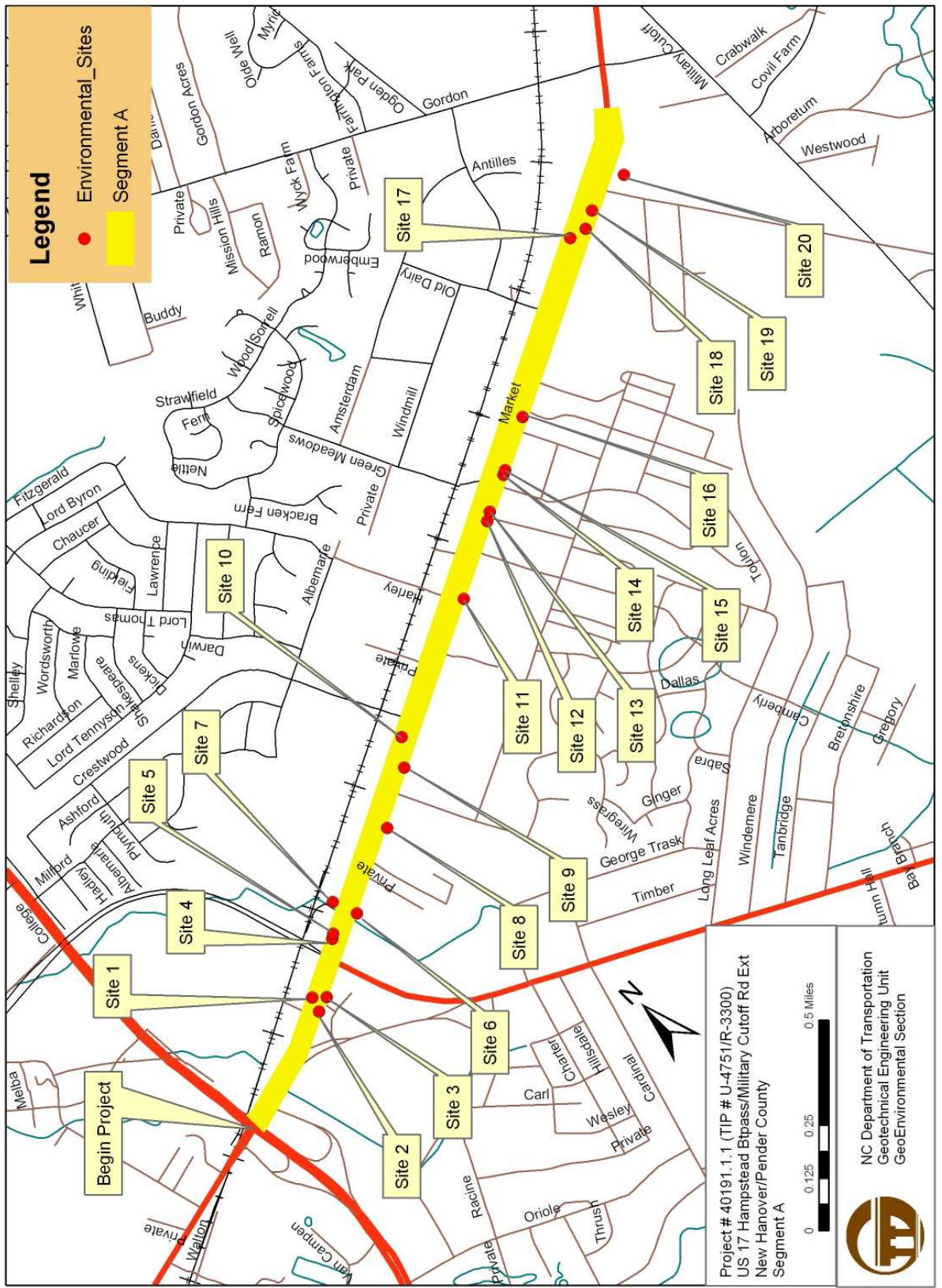
Jay Bennett, PE, State Roadway Design Engineer

Greg Perfetti, PE, State Bridge Engineer

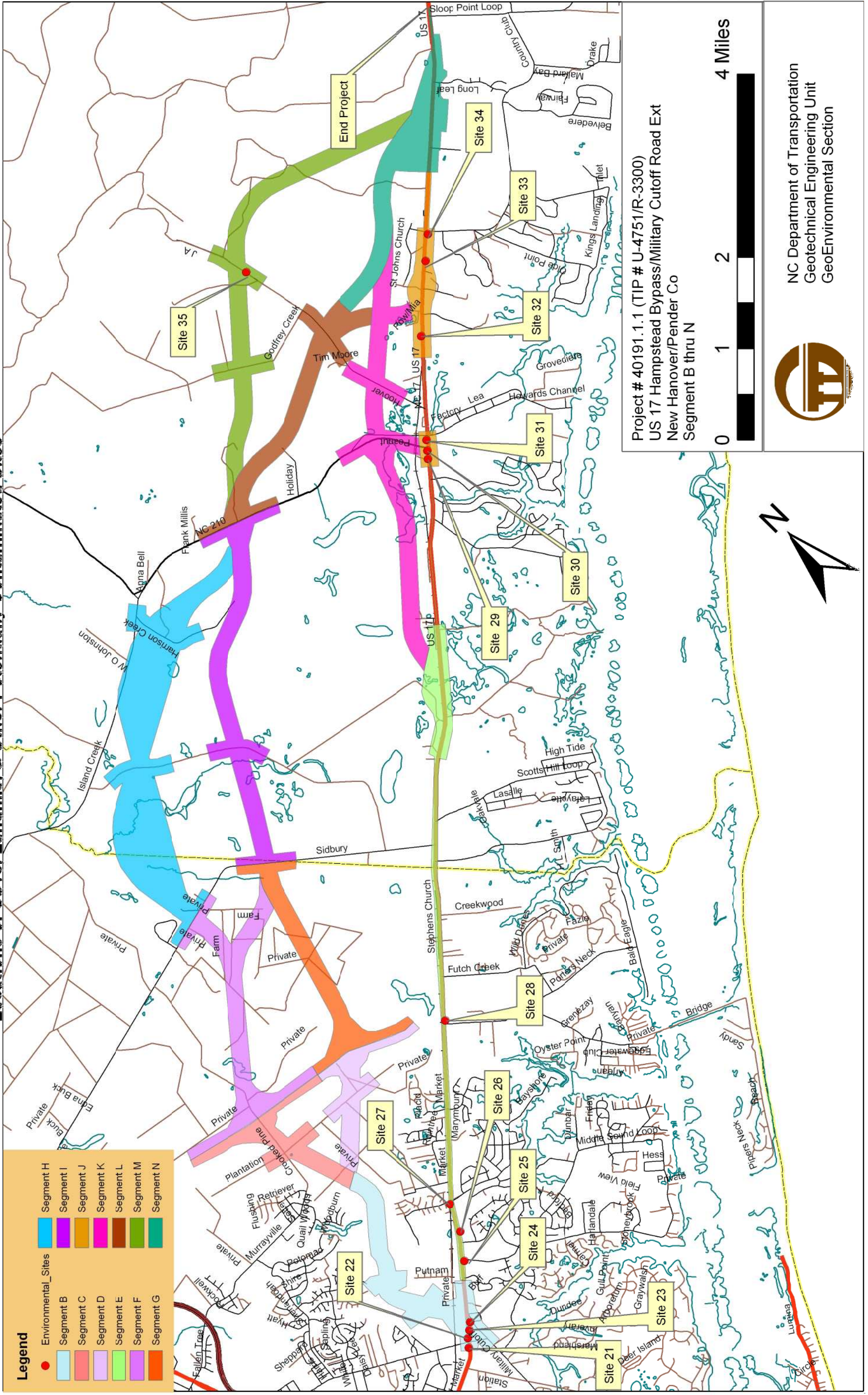
D.R. Henderson, PE, State Hydraulics Engineer

Charles W. Brown, PE, PLS, State Location & Surveys Engineer

Appendix A (Map 1 of 2)
 Locations of USTs, Landfills, & Other Potentially Contaminated Sites



Appendix A (Map 2 of 2) Locations of USTs, Landfills, & Other Potentially Contaminated Sites



NC Department of Transportation
 Geotechnical Engineering Unit
 GeoEnvironmental Section





Site # 1: Capital Lincoln



Site # 2: A-1 Tint Pros



Site # 3: Stevens Fabrication & Welding



Site # 4: JS & J Auto



Site # 5: Tony's Auto Service



Site # 6: Cape Fear Toyota



Site # 7: Leonard's



Site # 8: Make an Offer Auto



Site # 9: Parkwood Preowned



Site # 10: Hertz Equipment Rental



Site # 11: D & E Dodge



Site # 12: Gogas # 11



Site # 13: A to Z Equipment Rental



Site # 14: Valley Express (Our Corner Store)



Site # 15: Jackson Motor Co



Site # 16: The Pantry # 3122



Site # 17: Kelly's Automotive



Site # 18: Thieves Market



Site # 19: The Used Bookery



Site # 20: State Highway Patrol



Site # 21: Walgreen's Drug Store.



Site # 22: O'Leary's Auto Repair.



Site # 23: Pro Lube



Site 24: Market Street Citgo. View to the southwest



Site # 25: Scotchman #35. View to the southeast.



Site # 26: Gas Center #12. View to the southeast.



Site # 27: Wilco Hess #391. View to the northwest.



Site # 28: Coastal Outdoor Sports. View to the southeast.



Site 29: Wilco Hess gas station. View to the north.



Site 30: C Store BP. View to the north.



Site 31: Lucas & Associates Realtors. View to the north.



Site 32: Jeffy's Waterway Café. View to the north.



Site 33: Midway Tire & Battery. View to the south.

Site 34: Strickland's 183. View to the southwest.



Site 35: Castle Bay Golf Course Maintenance Shop.
View to the north.